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## Claims:

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(Currently amended) A method for identifying resources associated
 with a communications network, the method comprising:

defining a structured address format having a plurality of address segments, each address segment being associated generally with one or more properties of a managed resource of the communications network; and

assigning to the managed resource a structured address constructed according to the structured address format, the structured address being a coded identity designation used to identify and distinguish the managed resource from other managed resources in the communications network, each address segment of the assigned structured address having a value that conveys information about the one or more properties of the managed resource with which that address segment is associated.

1 2. (Original) The method of claim 1, further comprising assigning a name
2 to the managed resource and associating the name with the structured
3 address assigned to the managed resource.

- 1 3. (Original) The method of claim 2, further comprising translating
- between the name and the structured address assigned to the managed
- 3 resource using a domain name system service.
- 1 4. (Original) The method of claim 1, further comprising storing the
- 2 structured address in an inventory system used by an operations system
- 3 support (OSS) to support the communications network.
- 4 5. (Original) The method of claim 1, further comprising storing the
- 5 structured address at a network element in the communications
- 6 network.
- 1 6. (Original) The method of claim 1, further comprising transmitting the
- 2 structured address assigned to the managed resource over the
- 3 communications network in a packet.
- 1 7. (Original) The method of claim 1, further comprising producing by a
- 2 network element in the communications network a report containing the
- 3 structured address assigned to the managed resource.
- 1 8. (Original) The method of claim 1, wherein a value assigned to one of
- 2 the address segments in the structured address operates to identify a
- 3 zone in the communications network to which service traffic can be
- 4 transported.

- 1 9. (Original) The method of claim 1, wherein a value assigned to one of
- 2 the address segments of the structured address operates to identify a
- 3 type of service.
- 1 10. (Original) The method of claim 1, wherein a value assigned to one of
- 2 the address segments of the structured address operates to identify a
- 3 transmission bit rate for service traffic over the communications network.
- 1 11. (Currently amended) The method of claim 1, wherein the private
- 2 communications network includes one of an optical network, an Ethernet
- 3 network, and an Internet Protocol network.
- 1 12. (Original) The method of claim 1, wherein the structured address
- 2 format includes a dotted decimal notation.
- 1 13. (Original) The method of claim 1, wherein the managed resource is a
- data service and the structured address operates as a service identifier.
- 1 14. (Original) The method of clam 1, wherein the managed resource is a
- 2 path through the communications network over which service traffic is
- 3 transported and the structured address operates as a path identifier.
- 1 15. (Original) The method of claim 1, wherein the structured address is a
- 2 private address.

- 1 16. (Original) The method of claim 1, wherein the structured address
- 2 format is a first structured address format, and further comprising
- 3 translating the structured addresses defined according to the first
- 4 structured address format into structured addresses defined according to
- 5 a second structured address format.
- 1 17. (Original) The method of claim 1, further comprising querying a
- 2 network element in the communications network to take an inventory of
- managed resources based on structured addresses recorded by the
- 4 network element.
- 1 18. (Original) The method of claim 1, wherein the communications
- 2 network supports circuit-based communications, packet-based
- 3 communications, or a combination thereof.
- 1 19. (Original) The method of claim 1, further comprising incorporating the
- 2 structured address assigned to the managed resource in an inventory
- 3 system of an operations support system.
- 1 20. (Original) The method of claim 1, further comprising:
- 2 associating a first circuit identifier with a path by which traffic of a
- 3 service is transported over the communications network; and
- 4 associating the structured address with the first circuit identifier.

1	21.	(Original) The method of claim 20, further comprising:
2		associating a second circuit identifier with the path; and
3		associating the structured address with the second circuit
4		identifier.
1	22.	(Original) The method of claim 20, further comprising:
2		associating a second circuit identifier with a second path by which
3		traffic of the service is transported over the communications network;
4		and
5		associating the structured address with the second circuit
6		identifier.
1	23.	(Currently amended) An inventory system for managing resources of a
2		private communications network, the inventory system comprising:
3		a structured address format having a plurality of address
4		segments, each address segment being associated generally with one or
5		more properties of a managed resource of the private communications
6		network; and
7		means for assigning to the managed resource a structured address
8		constructed according to the structured address format, the structured
9		address being a coded identity designation used to identify and
10		distinguish the managed resource from other managed resources in the

- private communications network, each address segment of the assigned
  structured address having a value that conveys information about the
  one or more properties of the managed resource with which that address
  segment is associated.
- 1 24. (Original) The inventory system of claim 23, further comprising means
  2 for translating structured addresses defined according to the structured
  3 address format into structured addresses defined according to a second
  4 structured address format.
- 1 25. (Original) The inventory system of claim 23, further comprising means
  2 for associating a name with the structured address assigned to the
  3 managed resource.
- 1 26. (Original) The inventory system of claim 25, further comprising means
  2 for translating between the name and the structured address assigned to
  3 the managed resource.
- 1 27. (Currently amended) An operations support system, comprising:
  2 means for defining a structured address format having a plurality
  3 of address segments, each address segment being associated generally
  4 with one or more properties of a managed resource of a private

communications network; and

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6 means for assigning to the managed resource a structured address constructed according to the structured address format, the structured 7 address being a coded identity designation used to identify and 8 distinguish the managed resource from other managed resources in the 9 private communications network, each address segment of the assigned 10 structured address having a value that conveys information about the 11 12 one or more properties of the managed resource with which that address segment is associated. 13

- 1 28. (Currently amended) The inventory operations support system of
  2 claim 27, further comprising means for translating structured addresses
  3 defined according to the structured address format into structured
  4 addresses defined according to a second structured address format.
- 1 29. (Currently amended) The inventory operations support system of claim 27, further comprising means for associating a name with the structured address assigned to the managed resource.
- 1 30. (Currently amended) The inventory operations support system of claim 29, further comprising means for translating between the name and the structured address assigned to the managed resource.